

Application Serial No. 10/670,020  
Reply to office action of December 28, 2006

PATENT  
Docket: CU-3367

### REMARKS/ARGUMENTS

Reconsideration is respectfully requested.

Claims 1-3 are pending in the present application before this amendment. By the present amendment, and claim 1 has been amended. No new matter has been added.

In the office action, the drawings are objected to because they allegedly do not show every feature of the invention specified by the claims.

The Applicant has subsequently amended claim 1 by removing the objected to feature of the timing control unit to remove the basis for this objection to the drawings. Therefore, the Applicant respectfully requests that the Examiner should withdraw this objection to the drawings.

In the office action, claims 1-3 stand rejected under 35 U.S.C. § 112 ¶1 as failing to comply with the enablement requirement.

The Applicant has subsequently removed the timing control unit to remove the basis for this 35 U.S.C. § 112 ¶1 rejection of claim 1.

Claims 2 and 3 were rejected under 35 U.S.C. § 112 ¶1 only because they depend upon a rejected base claim from independent claim 1 and would otherwise not have been rejected under 35 U.S.C. § 112 ¶1.

Therefore, the Applicant respectfully requests that the Examiner withdraw this 35 U.S.C. § 112 ¶1 enablement rejection claims 1-3.

In the office action, claims 1-3 stands rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over the AAPA in view of U.S. Pat. Appl. No. 2002/0105490 (Kanabe).

The Applicant respectfully disagrees, and submits the claims, as they now stand

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are in allowable form.

The Examiner's attention is respectfully directed towards the following limitation in claim 1 as amended:

a control signal transmission line operatively connected to the gate driving unit, the control signal transmission line **for transmitting a data carry signal** in which the data carry signal is used as an enable signal for each frame wherein the **data carry signal is latched using the shift register**, and the control signal transmission line **for outputting an output control signal** in which the **output control signal is outputted after the data carry signal is latched**, wherein a number of control signals required for driving the LCD is reduced whereby PCB design is simplified and signal interference phenomenon is reduced.

Support for "*the data carry signal is used as an enable signal for each frame*" can be found in the specification at pages 7 and 8 in lines 24 and 1, respectively. Support for "*data carry signal is latched using the shift register*" can be found in the specification at page 8 line 3. Support for "*the control signal transmission line for outputting an output control signal*" can be found at page 8 in lines 1-2. Support for "*the output control signal is outputted after the data carry signal is latched*" can be found in the specification at page 8 lines 2-3.

AAPA teaches a timing control unit, a gate driving unit, and a control signal transmission line but fails to teach a single control signal transmission line and fails to teach a timing control unit controlling the transmitted output control signal by a delay of the load signal.

Kanabe teaches an erasing device for LCD displays which uses a single control transmission line to carry an output control signal and a data carry signal by combining the start and enable signals.

However neither the AAPA nor Kanabe teaches or suggest the requisite

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elements of (1) *"the data carry signal is used as an enable signal for each frame"* (2) *"data carry signal is latched using the shift register"*; (3) *"the control signal transmission line for outputting an output control signal"*; and (4) *"the output control signal is outputted after the data carry signal is latched"*.

Therefore the Applicant respectfully submits that claims 1-3, as currently amended, are in allowable form because the claimed device now incorporates these four elements not taught or suggested by AAPA and Kanabe such that the present invention has been amended to require that a SINGLE control signal transmission line is configured to transmits the BOTH the data carry signal and the output control signal, in which the output control signal is outputted ONLY AFTER the data carry signal is latched using the shift register.

The Examiner is respectfully requested to withdraw this rejection to independent claim 1.

In conclusion, the Applicant respectfully submits that claims 1-3, now pending in this application, are now in condition for allowance. Therefore, the Applicant respectfully requests reconsideration of claims 1-3 and withdrawal of this rejection.

#### **SUMMARY**

For the reasons set forth above, the Applicant respectfully submits that claims 1-3, now pending in this application, are in condition for allowance over the cited references. Accordingly, the Applicant respectfully requests reconsideration and withdrawal of the outstanding rejections and earnestly solicits an indication of allowable

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subject matter. This amendment is considered to be responsive to all points raised in the office action. Should the examiner have any remaining questions or concerns, the examiner is encouraged to contact the undersigned attorney by telephone to expeditiously resolve such concerns.

Respectfully submitted,

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